

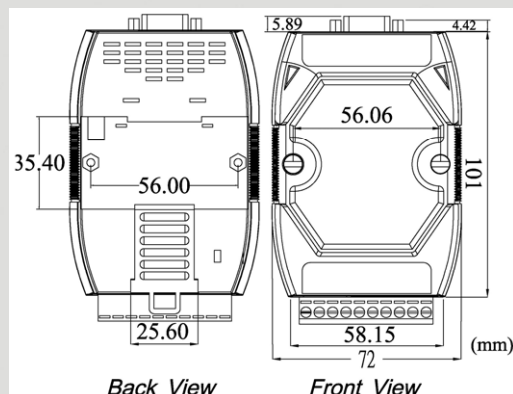


PROFIBUS Series Products

PROFIBUS to RS-232/422/485 Converter



I-7550



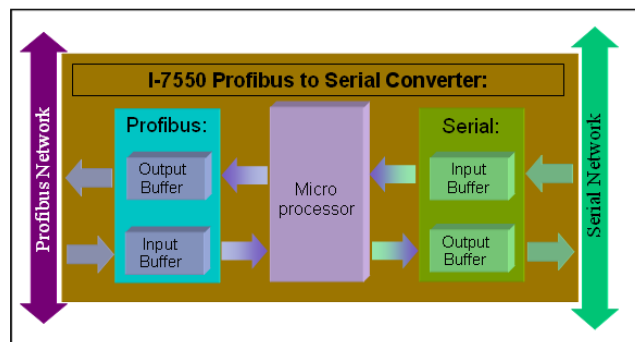
Dimensions

The I-7550 converter is specially designed for the slave device of PROFIBUS DP protocol. It offers RS-232, RS-422, and RS-485 three kinds of communication way. With the Hybrid COM 1 design, users can readily choose one type of com port to use. By using this module, users can put their RS-232/422/485 devices into PROFIBUS network very easily.

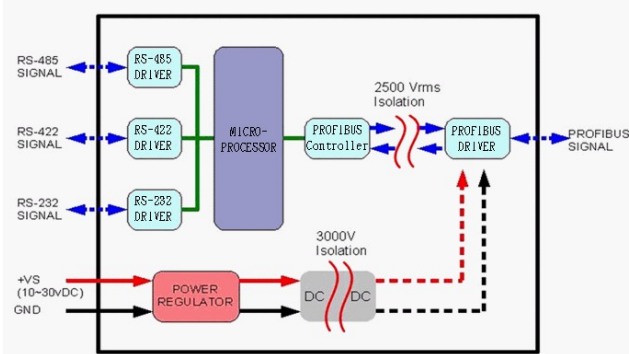
Features

- Protocol & Hierarchy: DP-V0 Slave
- Detect transmission rate (9.6 to 12000 kbps) automatically
- Max length of in/output data is 128 Bytes
- Address 0~126 set by DIP switch or EEPROM
- Support several kinds of baud rate for COM1 from 1.2 to 115.2 kbps
- Built-in self-tuner ASIC controller on RS-422/485 port
- Network Isolation Protection: High Speed iCoupler
- 3000VDC isolation protection on PROFIBUS side
- 4KV ESD Protection
- Mountable on DIN Rail

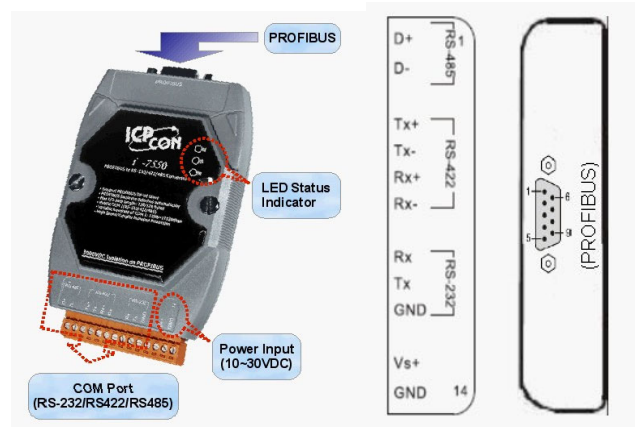
Data Flow



Block Diagram



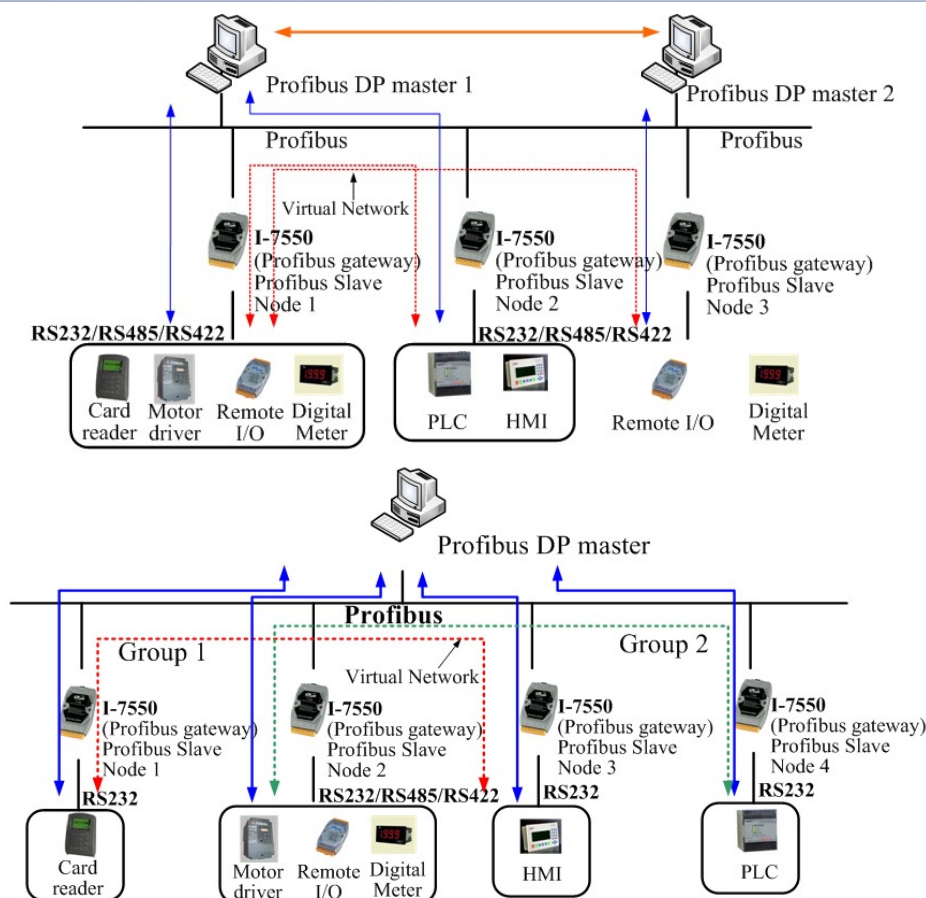
Pin Assignments



Hardware Specifications

| Item | I-7550 |
|----------------------|---|
| CPU | 80186, 80MHz |
| Flash | 512K Bytes |
| SRAM | 512K Bytes |
| EEPROM | 16K Bytes |
| Watch Dog Timer | CPU Built-in |
| COM 1 | RS-232(3 wires)/RS-422/RS-485 |
| Baudrate | Up to 115.2Kbps |
| PROFIBUS Interface | 9-pin D-Sub(Female) |
| PROFIBUS Controller | Siemens SPC3 |
| PROFIBUS Transceiver | ADI ADM2486 iCoupler Isolated Transceiver |
| Transmission Rate | Up to 12Mbps |
| Power Requirement | 10V ~ 30V |
| Power Consumption | 2.5W |
| Operating Temp. | -25°C ~ +75°C |
| Storage Temp. | -30°C ~ +85°C |
| Humidity | 5% ~ 95% |
| Dimensions | 118mm x 72mm x 33mm (H x W x D) |

Applications



Ordering Information

| | |
|-----------|---|
| I-7550 | PROFIBUS to RS-232/422/485 Converter |
| I-7550 CR | PROFIBUS to RS-232/422/485 Converter (RoHS) |